

Onchunchun Walkways in Busan, South Korea

Daylighting Space

305,118ft³ (8,640m³)

Daylighting Length

492ft (150m)

Ave. Illuminance

8 foot-candles (80lux)

Product

Sunportal CS



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Ssang-Sik CHOI, Senior Urban Design Officer, Busan City Hall



Onchunchun walkways are two separate long underground pedestrian tunnels crossing beneath the public outdoor car park at Onchunchun train station in Busan, the second largest city after Seoul in South Korea. These underground walkways attract a large amount of foot traffic, including commuters and local residents who stroll along the Onchunchun creek, bicycle or jog through the cool riparian area of town that is currently in the process of a major re-development programme by Busan City Hall.



“As part of our Onchunchun Creek redevelopment plans, we decided to rethink our public underground walkways, especially the old and insufficient lighting fixtures in them – they’re dark as well as unpleasant, and still use a lot of electricity,” explains Senior Urban Design Officer, Ssang-Sik CHOI. “With lots of pedestrians and cyclists passing through the underground walkways at the same time, we had to find a new energy-efficient lighting system that worked more effectively to improve the pedestrian visibility and safety, as well as to modernise the overall look and feel of the space.”

Following a demonstration of the SUNPORTAL daylighting system, Ssang-Sik and his team were so impressed with the product’s innovative technology, environmental properties and energy efficiency. They immediately arranged to install integrated SUNPORTAL daylighting systems with optional LED emergency lighting kits in both underground walkways.

The new technology has been very well received by the public. “The SUNPORTAL daylighting system has exceeded everyone’s expectations and is creating quite a stir,” explains Ssang-Sik. “We are receiving really positive feedback about it from the public, and, based on the positive feedback and operational results so far, are investigating opportunities to roll out the SUNPORTAL daylighting system across the city.”